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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Attorney Docket No.: DEX-0142
Inventors: Macina et al.
Serial No.: 09/802,674
Filing Date: March 9, 2001
Examiner: Alana M. Harris
Group Art Unit: 1642
Title: Method of Diagnosing, Monitoring,
Staging, Imaging and Treating
Gastrointestinal Cancer

"Express Mail" Label No. EV540196556US
Date of Deposit September 24, 2004

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By Kathleen A. Tyrrett
Typed Name: Kathleen A. Tyrrett, Reg. No. 38,350

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Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 C.F.R. §1.56 and in accordance with 37 C.F.R. §§1.97-1.98, information relating to the above-identified application is hereby disclosed. Inclusion of information in this statement is not to be construed as an admission that this information is material as that term is defined in 37 C.F.R. §1.56(b).

(XX) In accordance with §1.97(b), since this Information
Disclosure Statement is being filed either within three

months of the filing date of the above-identified application, within three months of the date of entry into the national stage of the above identified application as set forth in §1.491, or before the mailing date of a first Office Action on the merits of the above-identified application, no additional fee is required.

(XX) In accordance with §1.97(c), this Information Disclosure Statement is being filed after the period set forth in §1.97(b) above but before the mailing date of either a Final Action under §1.113 or a Notice of Allowance under §1.311, therefore:

() Certification in Accordance with §1.97(e) is attached hereto; or

(XX) Authorization to charge Deposit Account No. 50-1619 the fee of \$180.00 as set forth in §1.17(p) is provided.

() In accordance with §1.97(d), this Information Disclosure Statement is being filed after the mailing date of either a Final Action under §1.113 or a Notice of Allowance under §1.311 but before the payment of the Issue Fee, therefore included are: Certification in Accordance with §1.97(e); Petition Requesting Consideration of the Information Disclosure Statement; and the fee of \$130.00 as set forth in §1.17(I) (1).

(XX) Copies of each of the references listed on the attached Form PTO-1449 (modified) are enclosed herewith.

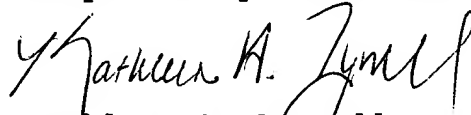
() In accordance with §1.98(d), copies of some or all of the references listed on the attached Form PTO-1449 (modified) are not enclosed herewith because they were previously submitted to the U.S. Patent and Trademark Office in prior application Serial No. _____, filed _____, for which a claim for priority under 35 U.S.C. §120 has been made in the instant application.

Please charge any deficiency or credit any overpayment to Deposit Account No. 50-1619. This form is submitted in duplicate.

() The relevance of the listed references in a foreign language is as stated in the specification at pages @@.

(XX) All listed references are in the English language with the exception of references CY and DF for which an English Abstracts are provided.

Respectfully submitted,



Kathleen A. Tyrrell
Registration No. 38,350

Date: September 24, 2004

Licata & Tyrrell P.C.
66 E. Main Street
Marlton, New Jersey 08053

(856) 810-1515



Form PTO-1449 Modified List of Patents and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce	Docket No. DEX-0142	Serial No. 09/802,674
	Applicant Macina et al.	
	Filing Date March 9, 2001	Group 1642

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

CA	Affara et al., "Analysis of chromatin changes associated with the expression of globin and non-globin genes in cell hybrids between erythroid and other cells" Nucleic Acids Research 1985 13(15):5629-5644
CB	Barlow et al., "Human carbonic anhydrase I cDNA", Nucleic Acids Research 1987 15(5):2386
CC	Bekku et al., "Carbonic anhydrase I and II as a differentiation marker of human and rat colonic enterocytes", Res Exp Med (Berl). 1998 198(4):175-185
CD	Chiang et al., "The aberrant expression of cytosolic carbonic anhydrase and its clinical significance in human non-small cell lung cancer", Cancer Lett. 2002 188(1-2):199-205
CE	Cole et al., "Proteomic analysis of colonic crypts from normal, multiple intestinal neoplasia and p53-null mice:a comparison with colonic polyps", Electrophoresis 2000 21(9):1772-1781
CF	Curtis P.J., "Cloning of Mouse Carbonic Anhydrase mRNA and Its Induction in Mouse Erythroleukemic Cells", J. Biol. Chem. 1983 258(7):4459-4463
CG	Collins F.S., "Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences", Proc. Natl. Acad. Sci. USA 2002 99(26):16899-16903
CH	Debili et al., "Expression of platelet glycoproteins by erythroid blasts in four cases of trisomy 21", Leukemia 1989 3(9):669-678
CI	Dover et al., "Changing erythrocyte populations in juvenile chronic myelocytic leukemia:evidence for disordered regulation", Blood 1977 49(3):355-365

EXAMINER	DATE CONSIDERED
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	Applicant Macina et al.	
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	CJ	Ferraroni et al., "Crystal structure of a zinc-activated variant of human carbonic anhydrase I, CA I Michigan 1:evidence for a second zinc binding site involving arginine coordination", Biochemistry 2002 41(20):6237-6244
	CK	Fonti et al., "Carbonic anhydrase I reduction in colonic mucosa of patients wit active ulcerative colitis", Dig Dis Sci 1998 43(9):2086-2092
	CL	Franchi et al., "Carbonic anhydrase inhibitors. Inhibition of cytosolic isozymes I and II and transmembrane, cancer-associated isozyme IX with lipophilic sulfonamides", J. Enzyme Inhib. Med. Chem. 2003 18(4):333-338
	CM	Fraser et al., "The Mouse Carbonic Anhydrase I Gene Contains Two Tissue-Specific Promoters", Molecular and Cellular Biology 1989 9(8):3308-3313
	CN	Frulloni et al., "Elevated Serum Levels of Antibodies to Carbonic Anhydrase I and II in Patients with Chronic Pancreatitis", Pancreas 2000 20(4):382-388
	CO	Gramlich et al., "Immunohistochemical localization of sodium-postassium-stimulated adenosine triphosphatase and carbonic anhydrase in human colon and colonic neoplasms", Arch Pathol Lab Med. 1990 114(4):415-419
	CP	Hori et al., "Effects of thyroid hormone on carbonic anhydrase I gene expression in human erythroid cells", Thyroid 1998 8(6):525-531
	CQ	Kikuchi et al., "Effects of thyroid hormone on carbonic anhydrase I levels in human erythroid (YN-1) cells", J Clin Endocrinol Metab 1994 79(1):71-75
	CR	Klade et al., "Identification of tumor antigens in renal cell carcinoma by serological proteome analysis", Proteomics 2001 1(7):890-898

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CS	Kondo et al., "A Novel Low-activity Form of Carbonic Anhydrase I in Erythrocytes of Patients with Primary Aldosteronism", J Biol Chem 1984 259(24):15517-15522
CT	Kondo et al., "Induction of carbonic anhydrase I isozyme precedes the globin synthesis during erythropoiesis in K562 cells", Am J Hematol 1991 38(3):201-206
CU	Lönnnerholm et al., "Amount and distribution of carbonic anhydrases CA I and CA II in the gastrointestinal tract", Gastroenterology 1985 88(5 Pt 1):1151-1161
CV	Lowe et al., "Physical mapping of the human carbonic anhydrase gene cluster on chromosome 8", Genomics 1991 10(4):882-888
CW	Lowe et al., "Structure and methylation patterns of the gene encoding human carbonic anhydrase I", Gene. 1990 93(2):277-283
CX	Mitjavila et al., "Effects of granulocyte-macrophage colony-stimulating factor and erythropoietin on leukemic erythroid colony formation in human early erythroblastic leukemias", Blood 1987 70(4):965-973
CY	Ohata et al., "Acute erythroblastic leukemia presenting as FAB M6 with surface marker positive for megakaryocytic and erythroid:report of a case", Jpn J Clin Hematol 35(2):127-134
CZ	Renes et al., "Epithelial proliferation, cell death, and gene expression in experimental colitis:alterations in carbonic anhydrase I, mucin MUC2, and trefoil factor 3 expression", Int J Colorectal Dis 2002 17(5):317-326

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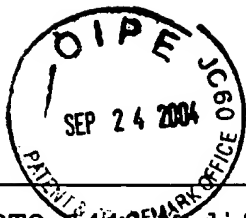
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	DA	Shepherd et al., "The Measurement of Human Erythrocyte Carbonic Anhydrase I by the Enzyme Linked Immunosorbent Assay (ELISA)", Clin. Biochem. 1982 15(5):248-251
	DB	Shousha et al., "Distribution of carbonic anhydrase I in gastric and duodenal tissue sections", Arch Pathol Lab Med 1987 111(3):279-281
	DC	Soler et al., "Acute erythroblastic leukemia. Cytological, cytogenetic and phenotypic studies in one case", Acta Haematol 1989 82(2):102-105
	DD	Unwin et al., "Serological and proteomic evaluation of antibody responses in the identification of tumor antigens in renal cell carcinoma", Proteomics 2003 3(1):45-55
	DE	Vaananen H.K., "Immunohistochemical localization of carbonic anhydrase isoenzymes I and II in human bone, cartilage and giant cell tumor", Histochemistry 1984 81(5):485-487
	DF	Wehinger et al., "Myelomonocytic leukemia with Philadelphia-positive and Philadelphia-negative cell lines in early childhood", Klin Wochenschr 1975 53(9):431-436
	DG	Winum et al., "Carbonic anhydrase inhibitors:inhibition of transmembrane, tumor-associated isozyme IX, and cytosolic isozymes I and II with aliphatic sulfamates", J Med Chem 2003 46(25):5471-5477
	DH	NCBI Genbank Accession No. P00915 [gi:115449] 1 March 1992 - 1 October 2000 with Revision History
	DI	NCBI Genbank Accession No. P35217 [gi:461679] 1 February 1994 - 1 October 2000 with Revision History

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U.S. Department of Commerce			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
	DJ	NCBI Genbank Accession No. P00916 [gi:115450] 1 February 1991 - 1 October 2000 with Revision History	
	DK	NCBI Genbank Accession No. P00917 [gi:115448] 1 February 1991 - 1 October 2000 with Revision History	
	DL	NCBI Genbank Accession No. P13634 [gi:115451] 1 February 1991 - 1 October 2000 with Revision History The revision history for 1345656 which replaces 115451 is provided	
	DM	NCBI Genbank Accession No. NM_001738 [gi:4502516] 19 March 1999 - 31 October 2000 with Revision History	
	DN	NCBI Genbank Accession No. L11622 [gi:177045] 25 February 1993 - 20 December 1993 with Revision History	
	DO	NCBI Genbank Accession No. AC084734 [gi:11136782] 10 November 2000 with Revision History - The revision history for 21313778 which replaces 11136782 is provided	
	DP	NCBI Genbank Accession No. AC008862 [gi:5686211] 3 August 1999 - 5 May 2000 with Revision History - the revision history of 19774452 which replaces 5686211 is provided	
	DQ	NCBI Genbank Accession No. X05014 [gi:29599] 11 August 1992 - 12 September 1993 with Revision History	
	DR	NCBI Genbank Accession No. L25082 [gi:407977] 13 October 1993 - 20 April 1995 with Revision History	
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	DS	NCBI Genbank Accession No. AC025800 [gi:7239686] 14 March 2000 - 26 January 2001 with Revision History The revision history of 18767553 which replaces 7239686 is provided
	DT	NCBI Genbank Accession No. M33987 [gi:179792] 15 September 1990 - 31 October 1994 with Revision History
	DU	NCBI Genbank Accession No. BC027890 [gi:20380765] 1 May 2002 with Revision History
	DV	Bekku et al., "Expression of Carbonic Anhydrase I or II and Correlation to Clinical Aspects of Colorectal Cancer", Hepato-Gastroenterology 2000 47:998-1001
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U. S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Name	Class	Subclass
	EA	2002/0086314	7-4-02	Yu et al.	435	6
	EB	2003/0073105	4-17-03	Lasek et al.	435	6
	EC	5,733,748	3-31-98	Yu et al.	435	70.1
	ED	2003/0101002	5-29-03	Bartha et al.	702	20
	EE	6,337,195	1-8-02	Yu et al.	435	70.1
	EF	6,160,090	12-12-00	Schlessinger et al	530	350
	EG	2002/0160382	10-31-02	Lasek et al.	435	6

FOREIGN PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Country	Translation YES NO	
	EH	WO 00/12702	9-3-00	PCT	x	
	EI	WO 96/39419	12-12-96	PCT	x	
	EJ	WO 01/94629 A2	13-12-01	PCT	x	
	EK	EP 1 033 401 A3	21-4-04	EPO	x	
	EL	WO 00/55351	21-9-00	PCT	x	

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